

In the Claims:

Claims 1 to 15 (Canceled).

- 1 16. (New) Gas turbine, especially aircraft engine, with at
- 2 least one turbine stator; at least one turbine rotor, and
- 3 at least one generator for producing electrical energy,
- 4 whereby the turbine rotor comprises a rotor shaft and rotor
- 5 discs with rotating rotor blades driven by the rotor shaft,
- 6 whereby the turbine stator comprises a housing and
- 7 stationary guide vanes, whereby the generator comprises at
- 8 least one generator stator and at least one generator
- 9 rotor, and whereby the generator is integrated into the
- 10 interior of the gas turbine in such a manner that the or
- 11 each generator rotor is allocated to the turbine rotor and
- 12 so that the or each generator stator is allocated to the
- 13 turbine stator, whereby kinetic energy of the turbine rotor
- 14 is convertible into electrical energy by the generator,
- 15 characterized in that the or each generator rotor is
- 16 allocated to the rotor blades of the turbine rotor, whereby
- 17 pole pieces are integrated into the rotor blades or are
- 18 allocated to the radially outwardly positioned ends of the
- 19 rotor blades.

1 17. (New) The gas turbine of claim 16, characterized in that
2 the or each generator stator is allocated to the housing of
3 the turbine stator and/or to the stationary guide vanes of
4 the turbine stator.

1 18. (New) The gas turbine of claim 16, characterized in that
2 the or each generator stator comprises windings, whereby
3 the windings are fuel-cooled.

1 19. (New) The gas turbine of claim 18, characterized in that
2 the windings of the or each generator stator are
3 constructed as hollow windings through which fuel flows for
4 cooling.

1 20. (New) The gas turbine of claim 16, characterized in that
2 control means operate the generator as a motor for starting
3 the gas turbine, and use the generator for producing
4 electrical energy following the start of the gas turbine.

1 21. (New) The gas turbine of claim 20, characterized in that
2 excess electrical energy during operation of the generator
3 as a motor is feedable into the gas turbine for driving the
4 turbine rotor of the gas turbine.

1 22. (New) The gas turbine of claim 16, characterized in that
2 the gas turbine comprises a high pressure compressor and a
3 low pressure compressor, whereby the high pressure
4 compressor as well as the low pressure compressor each

5 respectively comprise a stator, a rotor and a generator
6 integrated into the high pressure compressor or into the
7 low pressure compressor respectively.

1 23. (New) The gas turbine of claim 22, characterized in that
2 the high pressure compressor and the low pressure
3 compressor are coupled through the generators integrated
4 into the compressors, in such a manner that a power
5 equalization between the high pressure compressor and the
6 low pressure compressor is made possible.

1 24. (New) The gas turbine of claim 23, characterized in that
2 when the generator of the high pressure compressor produces
3 more electrical energy than necessary, this excess
4 electrical energy is usable by the generator of the low
5 pressure compressor for driving the rotor of the low
6 pressure compressor, and in that when the generator of the
7 low pressure compressor produces more electrical energy
8 than necessary, this excess electrical energy is usable by
9 the generator of the high pressure compressor for driving
10 the rotor of the high pressure compressor.

[REMARKS FOLLOW ON NEXT PAGE]